APPROVED By Olivia Yu at 2:36 pm, Jan 03, 2018

NMOCD approves of the corrective actions for 1RP-4803 and grants closure.

Confirmation of Corrective Actions

South Hat Mesa Lea County, New Mexico 1RP-4803

Prepared for:



370 17th St., Suite 2500 Denver, CO 80202

Prepared by:



2620 W. Marland Hobbs, NM 88240

December 19, 2017

Confirmation of Corrective Action

Tasman Geosciences, Inc. (Tasman) has prepared the Confirmation of Corrective Action on behalf of DCP Midstream, LP (DCP) to document the results of field activities that were conducted at the South Hat Mesa (GPS 32.5072 -103.6721) located in Lea County, New Mexico.

On August 30, 2017, approximately 225 gallons of lube oil was released to an earthen containment as a result of cattle bumping and opening a small valve on an elevated tank. Contractors working on the location responded; closing the valve and recovering 200 gallons of lube oil via vacuum truck. On November 29, 2017 the release area was GPS mapped (Figure 1) and excavated to 1' and samples were collected, the samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B) and photographed (Appendix C). The laboratory analytical results on confirmation sample 01 @1' (CS01@1') and the 4-wall composite are below NMOCD regulatory limits. No water depth of ground water was found on a search radius of 1700 meters on NMOSE data base (Appendix D), extended radius to 10,000 meters to have a depth to ground water of +/- 325'.

A total of 12 cubic yards of contaminated soil were exported and disposed of at Lazy Ace Land Farm. A total of 12 cubic yards of 1" gravel was imported for backfill.

Attachments:

Figure 1–Excavation Overview Appendix A – Initial C141 Appendix B – Laboratory Analyses Appendix C – Photo Documentation Appendix D – NMOSE DGW

Figures



December 2017 DESIGNED BY:

DRAWN BY: D. Arnold



 TASMAN
 Tasman Geosciences Inc.

 6899 Pecos Street - Unit C
 6899 Pecos Street - Unit C

 GEOSCIENCES
 Denver, CO 80221

DCP Midstream South Hat Mesa Release NESE Section 4, Township 21 South, Range 32 East Lea County, New Mexico

-	1.00					
Lege	end					
	Composite Soil Sample Location (4 point)					
*	Soil Sample Location					
×	Point of Release (32.507300, -103.672550)					
	Excavation Extent (Based off Trimble GPS Data)					
Notes:						
	t denotes field values					
Red text denotes lab values						
PID - Pho B - Benze T - Toluer E - Ethylb X - Total X	- Total Petroleum Hydrocarbons toionization detector Reading (ppm) ane ne nenzene					
All locatio	ns are approximate unless otherwise noted.					
N	0 5 10					
Imagery S	Sources: Google Earth; 2016 Google					

Excavation Overview Figure Appendix A

CERTIFIED MAIL, RETURN RECEIPT REQUESTED (7017 1450 0000 2692 5681)

District
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico **Energy Minerals and Natural Resources**

> **Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Initial only

Form C-141

Revised April 3, 2017

Release Notification	and C	Corrective	Action
-----------------------------	-------	------------	--------

		OPERATOR	X Initial Report	X Final Report
Name of Company DCP Operating Co	ompany, LP	Contact Rob Gough		*
Address 10 Desta Drive		Telephone No. 432-620-4166		
Facility Name Suite 500W		Facility Type Booster Station		
Surface Owner BLM	Mineral Owner	r	API No.	

Type of Release Lube Oil Source of Release Ancillary storage tank Was Immediate Notice Given?

Was a Watercourse Reached?

By Whom? N/A

Mineral Owner

LOCATION OF RELEASE

4 21S 32E 90 North 10 West Lea	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
		4	215	32E	90	North	10	West	Lea

Latitude 32.5072

Yes X No

Longitude -103.6721 NATURE OF RELEASE

	Volume of Release 225 gallon	Volume Recovered 200 gallon
	Date and Hour of Occurrence 08:00AM (MT), 8/30/2017	Date and Hour of Discovery 08:00AM (MT), 8/30/2017
Yes No X Not Required	If YES, To Whom?	
	Date and Hour N/A	

If YES, Volume Impacting the Watercourse.

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

N/A

By Olivia Yu at 1:19 pm, Sep 06, 2017

NAD83

Describe Cause of Problem and Remedial Action Taken.*

Cattle jumped the fence and were on the booster station property near the ancillary maintenance tanks. Contractors working at the location approached and witnessed the cattle bump and open a small valve on an elevated lube oil tank before jumping over the fence and leaving the area.

N/A

Describe Area Affected and Cleanup Action Taken,*

Contractors immediately closed the valve and vacuumed up free liquids. The DCP operator was immediately onsite. The valve handle was removed and the line plugged. Impacted soil was minimal and will be removed or remediated, as appropriate.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Land Dh	OIL CONSERVATION DIVISION
Signature: Kohurth /Kyl	- M -
Printed Name: Rob Gough	Approved by Environmental Specialist:
Title: Senior Environmental Engineer	Approval Date: 9/6/2017 Expiration Date:
E-mail Address: rgough@dcpmidstream.com	Conditions of Approval: Attached
Date: 8/31/2017 Phone: 432-620-4166	see attached directive
Attach Additional Sheets If Necessary	DOX1724949101 DOX1724949867 1RP-4803

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _9/5/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4803_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _10/6/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Mr. Gough:

Foremost, NMOCD sincerely appreciates your compliance and rapid response in addressing this release. A summary of our conversation this morning regarding 1RP-4803 about the path forward:

- Clarification re: spill volume. At any time the volume of release is >= 5 bbls, regardless of whether the fluid was contained or impacted surface, NMOCD must be notified and a C-141 submitted per NMAC 19.15.29. The only exception, in which a release characterization and remediation plan is not necessary, is if the release occurred in a lined secondary containment.
- NMOCD does not preclude the Responsible Operator from immediate corrective actions of the release, such as removal of impacted soil and vacuuming of free liquids.
- Due to the prompt response of the Responsible Operator, NMOCD determined that complete delineation and remediation of the release are not necessary. However, these are the information required for confirmation of corrective actions:
 - Scaled map with the release area outlined and confirmation sample location marked. Please mark the GPS coordinates of the release point.
 - 2 confirmation soil samples will be sent to an accredited laboratory for BTEX, TPH, and chloride analyses, using the methods specified in the directive appended to the reviewed initial C-141: 1 discrete sample from within the release area and 1 will be a composite of soil from the 4 cardinal directions of the excavated area.
 - Photo documentation of the release pre- and post- remediation, optimally geo-referenced and dated.
 - The proposed remediation is by excavation.
- The Responsible Operator will submit a short summary with the above documentation within 90 days.

Please be advised that if the 2 confirmation samples are not within permissible levels for BTEX, TPH, and chlorides, then complete delineation and remediation may be required.

Please inform if there are any missing points or additional clarification is required.

Thanks, Olivia

From: Gough, Robert [mailto:RGough@dcpmidstream.com]
Sent: Wednesday, September 6, 2017 3:33 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Conder, Haskell P <HConder@dcpmidstream.com>; Blair, Yvonne B <YBBlair@dcpmidstream.com>
Subject: RE: DCP booster station lube oil release

Good afternoon Ms. Yu,

The Booster location is South Hat Mesa. This was a lube oil release and contractors were onsite to immediately remove free liquids. I would appreciate the opportunity to discuss the work plan in greater detail. When is the best time to reach you?

Thank you,

Rob Gough, PE Senior Environmental Engineer

Eunice Gas Plant & Field

DCP Midstream, LP 10 Desta Drive, Suite 600 West Midland, TX 79705 Ofc: 432-620-4166 Cell: 432-634-2589 e-mail: rgough@dcpmidstream.com



Know what's below-Call before you dig! 8-1-1

Rob

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, September 06, 2017 3:58 PM
To: Gough, Robert <<u>RGough@dcpmidstream.com</u>>
Cc: Conder, Haskell P <<u>HConder@dcpmidstream.com</u>>; Blair, Yvonne B <<u>YBBlair@dcpmidstream.com</u>>
Subject: DCP booster station lube oil release

Dear Mr. Gough:

Please note that the name of the booster station was not provided and that the C-141 is accepted as initial only.

Also, please be advised that additional documentation will be required (e.g., photos and confirmation samples).

The 1RP for this incident is

4803 9/6/2017 A DCP Booster Station 21S-32E-4I	8/30/2017
--	-----------

Please note that a release characterization/delineation workplan as detailed in the attachment must be approved by NMOCD BEFORE any remediation work.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Appendix B



December 05, 2017

ROBERT GOUGH

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: SOUTH HAT MESA

Enclosed are the results of analyses for samples received by the laboratory on 11/29/17 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705		oject Number:	ROBERT GOUGH	Reported: 05-Dec-17 12:07	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
CS01 @1'	H703275-01	Soil	29-Nov-17 12:00	29-Nov-17 16:10	
4 WALL COMP	H703275-02	Soil	29-Nov-17 12:15	29-Nov-17 16:10	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705			Project Nur Project Man		ie given Ert gouc			0	Reported: 5-Dec-17 12:	07
				'S01 @1' 275-01 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7112906	MS	30-Nov-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7112906	MS	30-Nov-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7112906	MS	30-Nov-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7112906	MS	30-Nov-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7112906	MS	30-Nov-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	48	7112906	MS	30-Nov-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	12.0		10.0	mg/kg	1	7112905	MS	30-Nov-17	8015B	
DRO >C10-C28	1590		10.0	mg/kg	1	7112905	MS	30-Nov-17	8015B	
EXT DRO >C28-C36	3070		10.0	mg/kg	1	7112905	MS	30-Nov-17	8015B	
Surrogate: 1-Chlorooctane			94.7 %	28.3-	164	7112905	MS	30-Nov-17	8015B	
Surrogate: 1-Chlorooctadecane			122 %	34.7-	157	7112905	MS	30-Nov-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	<10.0		10.0	mg/kg wet	10	B712019	JDA	02-Dec-17	EPA300.0	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project:SOUTH HAT MESAReported:Project Number:NONE GIVEN05-Dec-17 12:07Project Manager:ROBERT GOUGHFax To:None													
				ALL CON 275-02 (So										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories														
Volatile Organic Compounds by	v EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	7112906	MS	30-Nov-17	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	7112906	MS	30-Nov-17	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7112906	MS	30-Nov-17	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	7112906	MS	30-Nov-17	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	7112906	MS	30-Nov-17	8021B					
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-1	48	7112906	MS	30-Nov-17 8021B						
Petroleum Hydrocarbons by GC	C FID													
GRO C6-C10	<10.0		10.0	mg/kg	1	7112905	MS	30-Nov-17	8015B					
DRO >C10-C28	450		10.0	mg/kg	1	7112905	MS	30-Nov-17	8015B					
EXT DRO >C28-C36	1510		10.0	mg/kg	1	7112905	MS	30-Nov-17	8015B					
Surrogate: 1-Chlorooctane			91.0 %	28.3-	164	7112905	MS	30-Nov-17	8015B					
Surrogate: 1-Chlorooctadecane			88.3 %	34.7-	157	7112905	MS	30-Nov-17	8015B					
			Green Anal	ytical Lab	oratories									
Soluble (DI Water Extraction)														
Chloride	<10.0		10.0	mg/kg wet	10	B712019	JDA	02-Dec-17	EPA300.0					

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: Project Number: Project Manager: Fax To:	ROBERT GOUGH	Reported: 05-Dec-17 12:07
--	--	--------------	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

					_									
		Reporting		Spike	Source		%REC		RPD					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 7112906 - Volatiles														
Blank (7112906-BLK1)														
Benzene	ND	0.050	mg/kg											
Toluene	ND	0.050	mg/kg											
Ethylbenzene	ND	0.050	mg/kg											
Total Xylenes	ND	0.150	mg/kg											
Total BTEX	ND	0.300	mg/kg											
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	72-148							
LCS (7112906-BS1)				Prepared: 2	29-Nov-17	Analyzed: 3	30-Nov-17							
Benzene	2.00	0.050	mg/kg	2.00		100	79.5-124							
Toluene	1.96	0.050	mg/kg	2.00		97.9	75.5-127							
Ethylbenzene	1.90	0.050	mg/kg	2.00		94.8	77.7-125							
Total Xylenes	5.89	0.150	mg/kg	6.00		98.2	70.9-124							
Surrogate: 4-Bromofluorobenzene (PID)	0.0996		mg/kg	0.100		99.6	72-148							
LCS Dup (7112906-BSD1)				Prepared: 2	29-Nov-17	Analyzed: (30-Nov-17							
Benzene	1.99	0.050	mg/kg	2.00		99.5	79.5-124	0.641	6.5					
Toluene	1.93	0.050	mg/kg	2.00		96.3	75.5-127	1.66	7.02					
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.1	77.7-125	0.759	7.83					
Total Xylenes	5.86	0.150	mg/kg	6.00		97.6	70.9-124	0.585	7.78					
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	72-148							

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: SOUTH HAT N Project Number: NONE GIVEN Project Manager: ROBERT GOU Fax To: None	05-Dec-17 12:07
--	---	-----------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 7112905 - General Prep - Organics												
Blank (7112905-BLK1)				Prepared &	Analyzed:	29-Nov-17	7					
GRO C6-C10	ND	10.0	mg/kg									
DRO >C10-C28	ND	10.0	mg/kg									
EXT DRO >C28-C35	ND	10.0	mg/kg									
EXT DRO >C28-C36	ND	10.0	mg/kg									
Total TPH C6-C28	ND	10.0	mg/kg									
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		99.9	28.3-164					
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	34.7-157					
LCS (7112905-BS1)		Prepared & Analyzed: 29-Nov-17										
GRO C6-C10	219	10.0	mg/kg	200		110	76.6-119					
DRO >C10-C28	211	10.0	mg/kg	200		106	81.4-124					
Total TPH C6-C28	431	10.0	mg/kg	400		108	79.4-121					
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	28.3-164					
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	34.7-157					
LCS Dup (7112905-BSD1)				Prepared &	Analyzed:	29-Nov-17	7					
GRO C6-C10	214	10.0	mg/kg	200		107	76.6-119	2.40	7.94			
DRO >C10-C28	214	10.0	mg/kg	200		107	81.4-124	1.19	9.83			
Total TPH C6-C28	428	10.0	mg/kg	400		107	79.4-121	0.621	8.57			
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0		105	28.3-164					
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	34.7-157					

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705		Project N Project M			Reported: 05-Dec-17 12:07									
Soluble (DI Water Extraction) - Quality Control Green Analytical Laboratories														
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes				
Batch B712019 - General Prep - Wet Chem														
Blank (B712019-BLK1)				Prepared: (01-Dec-17 A	Analyzed: 0	4-Dec-17							
Chloride	ND	10.0	mg/kg wet	t										
LCS (B712019-BS1)				Prepared: ()1-Dec-17 A	Analyzed: 0	2-Dec-17							
Chloride	244	10.0	mg/kg wet	t 250		97.7	85-115							

LCS Dup (B712019-BSD1)		Prepared: 01-Dec-17 Analyzed: 02-Dec-17	
Chloride	244	10.0 mg/kg wet 250 97.6 85-115 0.0901 20	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.
 - Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Dam analyses. All claims including thos service. In no event shall Cardinal atfiliates or successors arising out			6	1	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location	Project Name:	Project #:	Phone #:	City:	Address:	Project Manager:	Company Name:	AF
(Circle One) 7.72 Bus - Other:			PLEASE NOTE: Liability and Damages. Calidinals liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatover et night be detended whether based number and received by Candinal within 30 days after ontpletion of the applicable service. In no event shall Caldinal bable for incidental or conceptional dimages including without limitation. It have not received by Candinal within 30 days after its subsidiaries, antiliates or successors arising out of or related to the performance of services hereunder by Candinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.			'4 Wall Comp	CS01 @1'	Sample I.D.		Karanja Lewis	Project Location: South Hat Mesa		Projec	Fax #:	State:		-	DCP Midstream	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix C

DCP Midstream South Hat Mesa 1RP-4803



Release, facing NE 11/29/2017



Release, facing NNW 11/29/2017



Excavating, facing W 11/29/2017



Excavated, facing E 11/29/2017



Excavated, facing W 11/29/2017

Appendix D



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)		•••					2=NE 3 st to lar	3=SW 4=SE gest) (N/) AD83 UTM in me	iters)	(1	n feet)	
	POD Sub-		•	Q	•							Donth	Danth	Mater
POD Number	Code basin C	ount				Sec	Tws	Rna	х	Y	Distance	-	Depth Water	Column
<u>C 03151</u>		ED					21S	•	621119	3595526* 🌍	3950	1352		
CP 00793 POD1	CP	LE	1	1	2	01	21S	32E	628932	3598270* 🌍	4403	1000		
CP 01151 POD1	CP	LE				32	22S	36E	627037	3601186 🌍	4538	823		
CP 00794 POD1	CP	LE	4	1	1	18	21S	33E	629976	3594865* 🌍	5892	160		
CP 00795 POD1	CP	LE	4	1	1	18	21S	33E	629976	3594865* 🌍	5892	170		
CP 00798 POD1	CP	LE	2	1	1	24	20S	33E	629348	3603892* 🌍	8074	850		
CP 00317	СР	LE	3	4	3	05	20S	33E	623054	3607235* 🌍	10019	680	325	355
CP 00653 POD1	СР	LE		4	4	04	20S	33E	625573	3607367* 🌍	10071	60		
										Avera	ge Depth to	Water:	325	feet
											Minimum	Depth:	325	feet
											Maximum	Depth:	325	feet
Record Count: 8														

UTMNAD83 Radius Search (in meters):

Easting (X): 624628.19

Northing (Y): 3597340

Radius: 10100

*UTM location was derived from PLSS - see Help

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